

4:1:1

Name _____

B

Sequences

Use the sequences below to:

- a) Write a mathematical rule as an algebraic expression.
 b) Find the 136th term for each sequence.

1) Expression for rule:

Term Number	1	2	3	4	5	...	136
Sequence	4	5	6	7	8		

2) Expression for rule:

Term Number	1	2	3	4	5	...	136
Sequence	9	11	13	15	17		

3) Expression for rule:

Term Number	1	2	3	4	5	...	136
Sequence	3	12	21	30	39		

4) Expression for rule:

Term Number	1	2	3	4	5	...	136
Sequence	6	13	20	27	34		

5) Expression for rule:

Term Number	1	2	3	4	5	...	136
Sequence	11	15	19	23	27		

Tell whether it is possible to construct a triangle with the given side lengths. Show work (using the Triangle Inequality rule) to justify your answer.

6) 2 in.
2 in.
3 in.

7) 1 cm
2 cm
3 cm

8) 1.5 m
1.5 m
4 m

9) 3 in.
5 in.
8 in.

10) 4 cm
5 cm
10 cm

11) $1\frac{5}{8}$ ft.
 $2\frac{5}{16}$ ft.
4 ft.

12) 3 in.
3 in.
3 in.

13) 6 cm
7 cm
13 cm

